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File: JPAB

May 14, 1993

PUB-NO: JP405117056A
DOCUMENT-IDENTIFIER: JP 05117056 A
TITLE: PRODUCTION OF CALCIUM PHOSPHATE POROUS CERAMIC

PUBN-DATE: May 14, 1993

INVENTOR-INFORMATION:

NAME

COUNTRY

TSUZUKI, MASAJI

KONDO, KAZUO

ASSIGNEE-INFORMATION:

NAME

COUNTRY

NGK SPARK PLUG CO LTD

APPL-NO: JP03309869

APPL-DATE: October 28, 1991

INT-CL (IPC): C04B 38/06; A61K 6/033; A61L 27/00; C04B 28/34

ABSTRACT:

PURPOSE: To obtain calcium phosphate capable of accurately and readily controlling the pore size and the porosity and having open pores.

CONSTITUTION: A method for production of a calcium phosphate porous ceramic, characteristically involving the various processes mentioned below, i.e., a charging process for charging calcium phosphate dense particles mainly composed of apatite hydroxide into a mold, a mixing process for mixing a metaphosphate with an organic binder and a solvent and for forming a slurry, a slurry-casting process for casting the above-mentioned slurry into the above-mentioned mold after the charging process, a drying process for drying and removing the solvent and a firing process for removing the organic binder by heating and for simultaneously fusing the metaphosphate.

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File: DWPI

Jun 11, 1984

DERWENT-ACC-NO: 1984-180011
DERWENT-WEEK: 198429
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TITLE: Drug impregnated porous ceramic - implanted into the body for the treatment of cancer or osteomyelitis etc

PATENT-ASSIGNEE:

ASSIGNEE

NGK SPARK PLUG CO LTD

CODE

NITS

PRIORITY-DATA: 1982JP-0209842 (November 30, 1982)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---------------|---------------|----------|-------|----------|
| JP 59101145 A | June 11, 1984 | | 003 | |

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|--------------|-------------------|----------------|------------|
| JP 59101145A | November 30, 1982 | 1982JP-0209842 | |

INT-CL (IPC): A61F 1/00; A61K 9/00; C04B 21/00

ABSTRACTED-PUB-NO: JP 59101145A

BASIC-ABSTRACT:

Porous ceramic having pores with size 10-500 microns at least on its surface has anti-tumour agents and/or antibiotics impregnated in the pores. The porous ceramic can be prepd. by adding binder (e.g. clay) to ceramic powder with 10-500 micron particle size, moulding the mixt. into suitable form and firing the moulding. The firing is carried out so that pores on the surface are not closed. Pref. main component of the ceramic is calcium phosphate (e.g. hydroxy-apatite, tricalcium phosphate), alumina, zirconia or silicon azide.

USE/ADVANTAGE - The ceramic is bedded in affected part of patients with osteomyelitis or malignant tumours. The drug, impregnated in the ceramic pores shows good therapeutic effect for a long time. Further, the ceramic does not adversely affect the body.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: DRUG IMPREGNATE POROUS CERAMIC IMPLANT BODY TREAT CANCER OSTEOMYELITIS

DERWENT-CLASS: B07 L02 P32

CPI-CODES: B02-Z; B04-D02; B05-A01B; B05-A03B; B05-B02A3; B05-B02C; B11-C04; B12-G07; B12-M10; L02-E; L02-G;

CHEMICAL-CODES:

Chemical Indexing M1 *01*

Fragmentation Code

M423 M431 M782 M903 N103 Q453 R044 R052 V793

Chemical Indexing M2 *02*

Fragmentation Code

A220 A940 B115 B701 B713 B720 B815 B831 C108 C802
C803 C804 C805 C807 M411 M431 M782 M903 M910 N103
Q453 R044 R052

Chemical Indexing M2 *03*

Fragmentation Code

A313 A940 C108 C550 C730 C801 C802 C803 C804 C805
C807 M411 M431 M782 M903 M910 N103 Q453 R044 R052

Chemical Indexing M2 *04*

Fragmentation Code

A540 A940 C108 C550 C730 C801 C802 C803 C804 C805
C807 M411 M431 M782 M903 M910 N103 Q453 R044 R052

Chemical Indexing M2 *05*

Fragmentation Code

D013 D019 E680 H1 H100 H181 J0 J014 J1 J111
J171 J2 J271 J3 J321 J5 J521 K0 L9 L941
M210 M211 M262 M281 M311 M314 M321 M332 M342 M343
M349 M373 M381 M391 M412 M431 M511 M520 M530 M540
M782 M903 M910 N103 P220 Q453 R044 R052 V0 V031

Chemical Indexing M2 *06*

Fragmentation Code

B114 B720 B732 B794 B799 B831 C107 C307 C520 C730
C800 C802 C803 C804 C806 C807 M411 M431 M782 M903
N103 Q453 Q606 R044 R052

Chemical Indexing M6 *07*

Fragmentation Code

M903 P220 P633 Q453 Q606 R044 R052 R111 R220 R430

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0220U; 1521U; 1544U; 1757U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1984-076087

Non-CPI Secondary Accession Numbers: N1984-134321

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L10: Entry 39 of 46

File: DWPI

Sep 15, 1987

DERWENT-ACC-NO: 1987-277353
DERWENT-WEEK: 198739
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TITLE: Microporous spheroidal calcium phosphate ceramic particles - useful for dental or bone restorations

INVENTOR: HENDERSON, D J; SALSBURY, R L ; VIT, J

PATENT-ASSIGNEE:

ASSIGNEE

CODE

ORTHOMATRIX INC

ORTHN

PRIORITY-DATA: 1985US-0748547 (June 25, 1985), 1987US-0009612 (January 21, 1987)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|--------------|--------------------|----------|-------|----------|
| US 4693986 A | September 15, 1987 | | 008 | |

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|-------------|------------------|----------------|------------|
| US 4693986A | January 21, 1987 | 1987US-0009612 | |

INT-CL (IPC): C04B 35/00; C07C 61/06

ABSTRACTED-PUB-NO: US 4693986A

BASIC-ABSTRACT:

(A) Novel calcium phosphate ceramic particles, suitable as an implant or prosthesis material, have 80-90 % theoretical bulk density, 10-80 mesh size range and a network of micro-pores of 1.5 microns medium pore size (as determined by mercury porosimetry) to permit tissue attachment.

(B) A novel sinterable agglomerate consists of individual dry particles of sinterable calcium phosphate material adhered together by organic binder (e.g. PVA, starch or polyvinyl pyrrolidone), the agglomerate having a spherical shape, 10-80 mesh particle size and 0.8-1.2 g/cc bulk density.

(C) Implantable calcium phosphate particles of 10-80 mesh size range are prep'd. by (a) agglomerating dry calcium phosphate particles of 1-75 microns size range with a binder to form spheroidal agglomerates of size 15-75% larger than the desired size; and (b) sintering to form spheroidal ceramic particles having a network of micropores extending throughout each particle to permit tissue attachment.

USE/ADVANTAGE - The particles are useful for dental or bone restorations. They are strong, free flowing and structurally stable and, on sintering, form a network of micropores providing sites for tissue ingrowth and attachment without the inflammatory response associated with rough and irregular ceramic surfaces.

TITLE-TERMS: MICROPOROUS SPHERE CALCIUM PHOSPHATE CERAMIC PARTICLE USEFUL DENTAL BONE RESTORATION

DERWENT-CLASS: A81 D21 D22 L02

CPI-CODES: A12-V02; D08-A03; D09-C01D; L02-G; L02-G03A;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0231 0906 1989 1996 2007 2198 2200 2682 2765 3289 3316

Multipunch Codes: 014 04- 101 23& 231 236 244 245 259 359 43& 54& 58& 609 645 678 688

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1987-117853